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मानक

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Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 7446 (1987): Dimensions for chisel shanks and chuck bushings for pneumatic chippers [PGD 8: Pneumatic Tools]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Pneumatic Tools Sectional Committee, EDC 64; Shanks for Pneumatic Tools Subcommittee, EDC 64 : 8 [Ref : Doc : EDC 64 (4693)]

Indian Standard

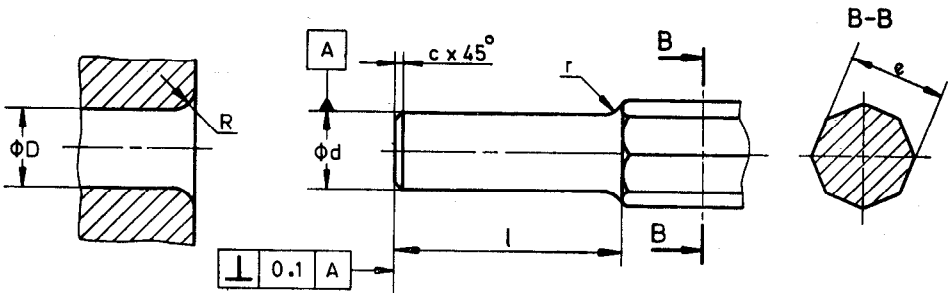
(Reaffirmed 2001)

DIMENSIONS FOR
CHISEL SHANKS AND CHUCK BUSHINGS
FOR PNEUMATIC CHIPPERS
(First Revision)

1. **Scope** — Covers the dimensions for chisel shanks and chuck bushings for use with pneumatic chippers conforming to IS : 7605-1985 'Specification for pneumatic chippers'.

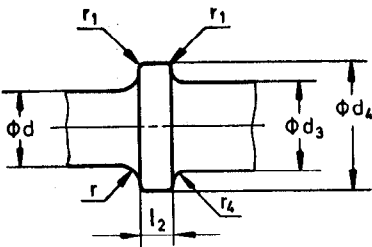
2. **Dimensions**

2.1 *Type A* — Tool with Parallel Shanks



CHUCK-BUSHING

SHANK WITHOUT COLLAR



DETAIL OF SHANK WITH COLLAR

All dimensions in millimetres.

Nominal Size	Shank										Bushing	
	<i>d</i> d8	<i>l</i> ±0.5	<i>l</i> ₂ ±1	<i>e</i>	<i>d</i> ₃ Max	<i>d</i> ₄ ±1	<i>r</i> Max	<i>r</i> ₁	<i>r</i> ₄ Max	<i>c</i>	<i>D</i> H8	<i>R</i> +0.5 0
12	12.7	45	6	16	13	21	4	0.8	3	0.8	12.7	4
17	17.3	60	9	22	20	30	4	0.8	3.2	1.6	17.3	4
20	20.0	60	9	25	24	34	6	0.8	3.2	1.6	20.0	6

Note 1 — The octagonal shape on the tool side and dimension, *e*, are given for information only.

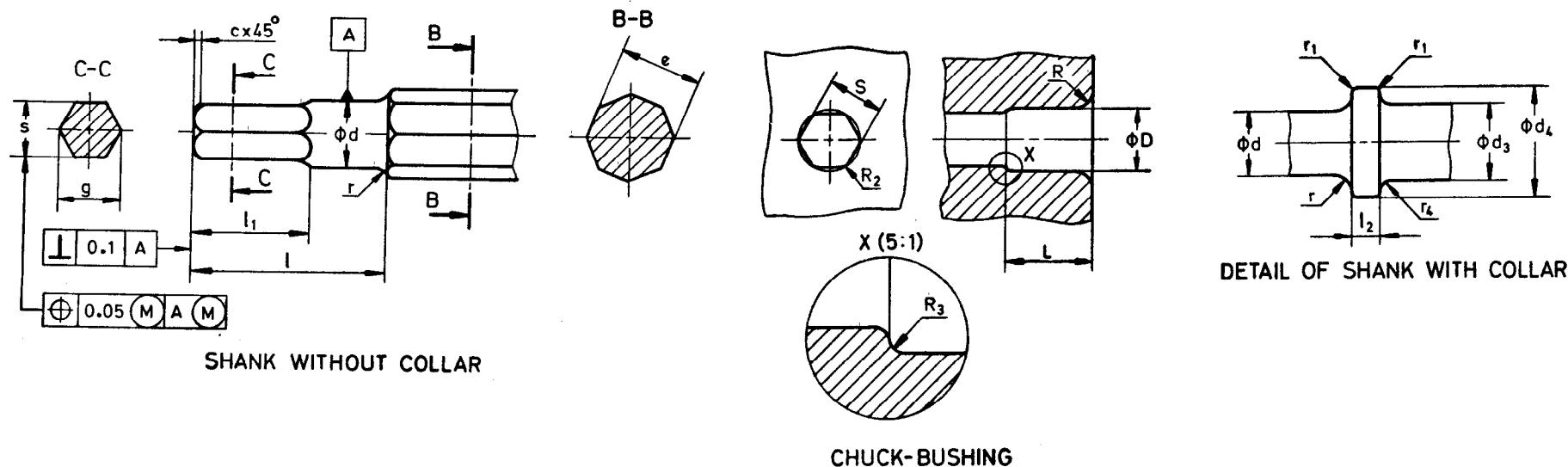
Note 2 — If a smaller shank size is needed, that is, nominal size 10, dimensions given for light rivet snap shanks in IS : 6572 - 1987 'Dimensions for pneumatic light rivet snap shanks and its chuck bushings (first revision)' may be adopted.

Adopted 1 May 1987

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2.2 Type B — Tool with Hexagonal Shanks



All dimensions in millimetres.

Nominal Size	Shank													Chuck Bushing					
	d d8	l ± 0.5	l_1 ± 0.5	l_2 ± 1	d_3 Max	d_4 ± 1	e	s d11	g 0 -0.3	r Max	r_1	r_2 Max	c	D H8	L ± 1	S H11	R +0.5 0	R_1 ± 0.5	R_2 ± 0.5
12	12.7	45	31	6	13	21	16	11.0	12.1	4	0.8	3	0.8	12.7	17	11.0	4	1	1
17	17.3	60	41	9	20	30	22	14.8	16.6	4	0.8	3.2	1.6	17.3	22	14.8	4	1	1
20	20.0	60	36	9	24	34	25	17.0	19.0	6	0.8	3.2	1.6	20.0	27	17.0	6	1	1

Note 1 — The octagonal shape on the tool side and dimension, e , are given for information only.**Note 2** — If a smaller shank size is needed, that is, nominal size 10, dimensions given for light rivet snap shanks in IS : 6572-1987 may be adopted.**Note 3** — The cutting edge of the chisel should be parallel to one of the sides of the hexagon.**Note 4** — The permitted errors of concentricity between the cylindrical portion, d , and the hexagonal portion, s , are included in the tolerances given in the above tables; the 'GO' gauge for dimensions d and s should, therefore, be a composite gauge. This remark is also applicable to the measurements of the corresponding chuck-bushings.

2.2.1 As an alternative to the tool with hexagonal shank, the hexagon portion may be replaced by a cylindrical portion with the same length, l_1 , and a diameter, s , equal to the width across flats of the hexagon (see Fig. 1).

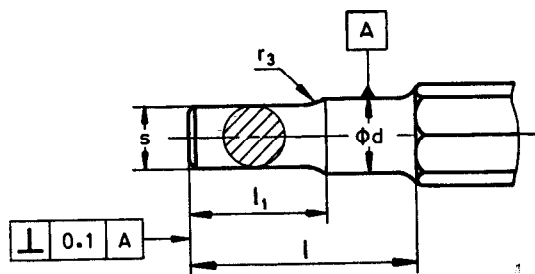


FIG. 1 ALTERNATIVE SHANK

3. Designation

3.1 A chisel shank of Type A having nominal size 17 and length, l , 60 mm shall be designated as:

Chisel Shank Parallel 17 × 60 IS : 7446

3.2 A chisel shank of Type B having nominal size 12 and length 45 mm shall be designated as:

Chisel Shank Hexagonal 12 × 45 IS : 7446

EXPLANATORY NOTE

This standard was first issued in 1974 based on ISO Recommendation R 1180.

This standard has now been revised to align it with ISO 1180-1983 'Shanks for pneumatic tools and fittings — dimensions of chuck bushings', issued by the International Organization for Standardization (ISO).